DNR

Vince & Ron

Vande Yacht Pump Installing, Inc.

Licensed Installers
P.O. Box 110
Greenleaf, WI 54126

Telephone: 920-499-4527
920-864-2173
3 Generations of Experience

May 7, 2014

Department of Natural Resources
Bureau of Drinking Water & Groundwater
P.O. Box 7921
Madison, WI 53707-7921

Subject: High Capacity Well Property
Beck Dairy Farms LLC 67-6-0025
Washington County

Dear Plan Reviewer:

Enclosed please find a high capacity well application (w/attachments) and check for $500. The application requests approval to construct one additional 200 gpm high capacity potable well as part of an expansion of an existing dairy operation. The facility is currently served by an existing 200 gpm well, UP352, approved and constructed in 2008 shortly after the facility was constructed. Initially, the facility was served by a low capacity well constructed in 2007, UL259, which failed to meet the water demand. The following provides a brief summary of the project.

- The legal descriptions for UP352 and UL259 appear to be incorrect. Both of these wells are located in the NE ¼ of the NW ¼, not the SE ¼ of the NW ¼.
- The proposed 200 gpm well will be operated alternately, not simultaneously, with UP352.
- The well casing pipe for the proposed well will terminate below the Maquoketa shale, and thereby be isolated from the neighboring private wells and surface water resources.
- The existing well and piping were approved in 2008 and have been inspected.
- The proposed well is located on property that will be owned by Beck Dairy Farms LLC at the time of construction.
- This facility is a CAFO.

Thank you for your review of this application. If you have any questions about this project, then please feel free to contact Mark Putra at mark.putra@gmail.com or 920-988-6548.

Sincerely,

Vince Vande Yacht

Vince Van de Yacht
Licensed Pump Installer

Attach. Application Form3300-256
Application Fee Check $500 #12589
Exhibits

DWR 5/12/14 JCK entd

State of Wisconsin
Department of Natural Resources
Private Water Systems Section - DG/2
dnr.wi.gov

High Capacity, School or Wastewater Treatment Plant Well Approval Application

Form 3300-256 (R 7/05)

RECEIVED DNR
MAY 12 2014
DRINKING WATER & GW

Notice: Prior department approval is required for the construction, reconstruction or operation of a high capacity well or system of high capacity wells, a school well or a wastewater treatment plant well in accordance with Section NR 812.09(4)(a), Wisconsin Administrative Code. Personally identifiable information collected on this form, including such data as your name, address and phone number, will be used for management of department programs and is unlikely to be used for other purposes. This information will be addressable under Wisconsin's Open Records Laws, ss. 19.32 - 19.39, Wis. Stats.

Use this form to request an approval for installation of a well or wells on a high capacity property, seek approval to make other changes to a high capacity property or to modify a well on a high capacity property, as required by NR 812.09(4)(a), Wisconsin Administrative Code. Refer to definitions of high capacity well, high capacity property and high capacity well system on page 5.

This form is not intended to be used when seeking approval for construction or modification of wells serving water systems regulated under ch. NR 811, Wis. Adm. Code. Any water system serving 7 or more homes, 10 or more mobile homes, 10 or more apartments, 10 or more condominiums, or 10 or more duplexes is regulated under ch. NR 811, Wis. Adm. Code. See NR 811.01, Wis. Adm. Code for applicability requirements.

Applicant Information

Application Prepared By (Name and Title): VINCE VANDE VACHT
Company: VANDE VACHT PUMP INSTALLING INC
Street Address: P.O. BOX 110
City: GREENLEAF
State: WI
ZIP Code: 54126
Telephone Number: 920 655 1368
Fax Number:
E-Mail Address: VVANDEVACHT@NEW.RR.COM

Property Ownership Information

Property owner, if different than applicant (Name of Person and Title): DAVE BEZK
Company: BEZK DAIRY FARMS LLC
Street Address: 5545 STH 28
City: ALLENTON
State: WI
ZIP Code: 53002
Telephone Number: 262-626-2429
Fax Number:
E-Mail Address: bezkdairy@KMORAINE.COM

Well Operator Information

Well operator if different than owner (Name of Person and Title):
Company:
Street Address:
City:
State:
ZIP Code:
Telephone Number:
Fax Number:
E-Mail Address:

Property Information

Enter the High Capacity Well File Number below if the property is already a high capacity property. If the property is not designated as a high capacity property at the time of application, enter "NONE." NOTE: Find the file number in upper right hand corner of the most recent high capacity well approval, or use the compact disk of departmental well data that is issued to drillers and pump installers. On the compact disk, see "File location" in red print in "Location" section. File number format is as follows: (1 or 2 digits for county) - (1 digit for well classification) - (1 to 4 digits for assigned property no.).

County: WASHINGTON
Town: WAYNE
High Capacity Well File No.: 67-6-0025

Submittal Purpose

Check all that apply:

- [x] Install one or more new wells with a capacity greater than 70 gallons per minute.
- [ ] Install one or more new wells with a capacity less than 70 gallons per minute on a high capacity property.
- [ ] Replace one or more wells with a capacity greater than 70 gallons per minute.
- [ ] Replace one or more wells with a capacity less than 70 gallons per minute on a high capacity property.
- [ ] Reconstruct one or more wells with a capacity greater than 70 gallons per minute.
- [ ] Reconstruct one or more wells with a capacity less than 70 gallons per minute on a high capacity property.
- [ ] Increase pumping rate in one or more wells to a rate greater than previously approved.
- [ ] Request continued operation of high capacity wells after a change in ownership. (No application fee required.)
- [ ] Renew a previous approval that has expired.
- [ ] Well (or wells) will serve a school or wastewater treatment plant. See definitions on page 5.
- [ ] Other, explain

Site Status Information

Determine the site status using the internet or the compact disk of departmental well data that is issued to drillers and pump installers and the information supplied by the property owner. Internet address is dnr.wi.gov/org/water/dwg/dws.htm. Enter YES or NO for each of the following questions.

YES NO

☐ ☐ Has the property boundary changed since the most recent high capacity well approval was issued? If the property is not yet a high capacity property, check NO.

☐ ☐ Has there been a change in well ownership since the last approval was written?
If YES, name of current owner: Date of purchase:

☐ ☐ Has there been a change in well operator since the last approval was written?
If YES, name of current operator: Date of change:

☐ ☐ Will a proposed well be connected to a plumbing system that is supplied by other sources (other wells, municipal supply, etc.)? If YES, include a schematic drawing showing backflow protection.

☐ ☐ Is a proposed well within 1,200 feet of a landfill? Determine if there are any landfills nearby, using the well information compact disk FIND feature. Enter the township, range and section of the well location. If the well is near a section line, also check the adjacent section or sections.
If YES, list the landfill site ID Number: OR Landfill location: (Township/Range/Section)

☐ ☐ Is a proposed well on a property that has a contaminated site? If YES, list the BRRTS (Bureau for Remediation and Redevelopment Tracking System) Number here and specify if the site is open or closed:
☐ Open ☐ Closed

☐ ☐ Is a proposed well on a property that has a groundwater use restriction recorded on the deed? If YES, list the BRRTS number, as assigned to the contaminated site by the DNR remediation and redevelopment program:

☐ ☐ Is a proposed well on a property that is listed on the department's registry of closed remediation sites for a groundwater use restriction? See compact disk or internet at maps.dnr.state.wi.us/imf/dnrimf.jsp?site=brrts. If YES, list the BRRTS Number here:

☐ ☐ Is a proposed well to be used for a public water supply system that serves 25 or more people? See definition of a "public water system" in the definitions section on page 5.

☐ ☐ Is a proposed well to be installed within a special casing area? Refer to the list of special casing areas that is published by the department and/or contact the regional DNR office. DUAL AQUIFER

☐ ☐ Has the number of wells or pumping capacity in an existing well increased since the most recent high capacity well approval was issued?

☐ ☐ Has the number of wells decreased since the most recent high capacity well approval? If the property is not yet a high capacity property, check NO.

☐ ☐ Is a non-pressurized storage vessel (i.e. reservoir) other than a pond proposed or in use?

☐ ☐ Will the well discharge directly to a storage pond?

☐ ☐ Is a pressurized tank with a capacity greater than 1,000 gallons proposed or in use?

☐ ☐ Is a proposed well within 1,200 feet of a quarry?

☐ ☐ Is a proposed well located in a floodplain or floodway?

☐ ☐ Are any existing well installations on the high capacity property out of compliance with Chapter NR 812, Wisconsin Administrative Code?

☐ ☐ Will the well be used as a source of bottled water?

☐ ☐ Are you seeking a variance to construct a well that has a capacity of less than 70 gallons per minute to low capacity well construction standards?

☐ ☐ Is the property served by a community water system?

DNR RECORDS CONTAIN DATA ON WELLS

Existing Well Information

Enter the following information on all **existing** wells on the property, if more than four wells, submit additional sheets:

Well Name Assigned by Well Owner (North Well, etc.):				
Well Number Assigned by Owner (001, 002, etc.):				
WI Unique Well Number or NA if no number:	UL259	UP352		
Permanent DNR High Capacity Well Number or N/A if none:				
Public Water System ID Number, if Public (if not public, NONE):				
Potable or Non-Potable Use:				
Type of Well (Irrigation, Industrial, Residential, etc.):				
Requested Average Water Usage per Day in Gallons:				
Requested Maximum Water Usage per Day in Gallons:				
Seasonal? (April to October, Year Around, etc.):				
Approved Pumping Capacity if Previously Approved (gpm):				
Current Pump Type & Capacity (gpm):				
Proposed Pump Type & Capacity If Change Requested (gpm):			See COVER LETTER	
Pump Discharge Type (Over Top of Casing Seal, Pitless, etc.):			ABOUT LEGAL	
Discharge Location (Building Pressure Tank, Pond, etc.):			DESCRIPTIONS	
Height of Well Casing Above Ground in Inches:				
Potential Contaminant Sources and Distance:				
Well Loc: Quarter Quarter Section	NE 1/4 of NW 1/4	NE 1/4 of NW 1/4	1/4 of 1/4	1/4 of 1/4
or Government Lot Number				
Section or French Long Lot No.				
Township:	T N	T N	T N	T N
Range (Select E or W):	R ☐E ☐W	R ☐E ☐W	R ☐E ☐W	R ☐E ☐W
Latitude (Degrees and Minutes)	__ __ ° __ __ . __ __ '	__ __ ° __ __ . __ __ '	__ __ ° __ __ . __ __ '	__ __ ° __ __ . __ __ '
Longitude (Degrees and Minutes)	__ __ ° __ __ . __ __ '	__ __ ° __ __ . __ __ '	__ __ ° __ __ . __ __ '	__ __ ° __ __ . __ __ '
GPS Map Datum (WGS84, WTM91, etc.)				

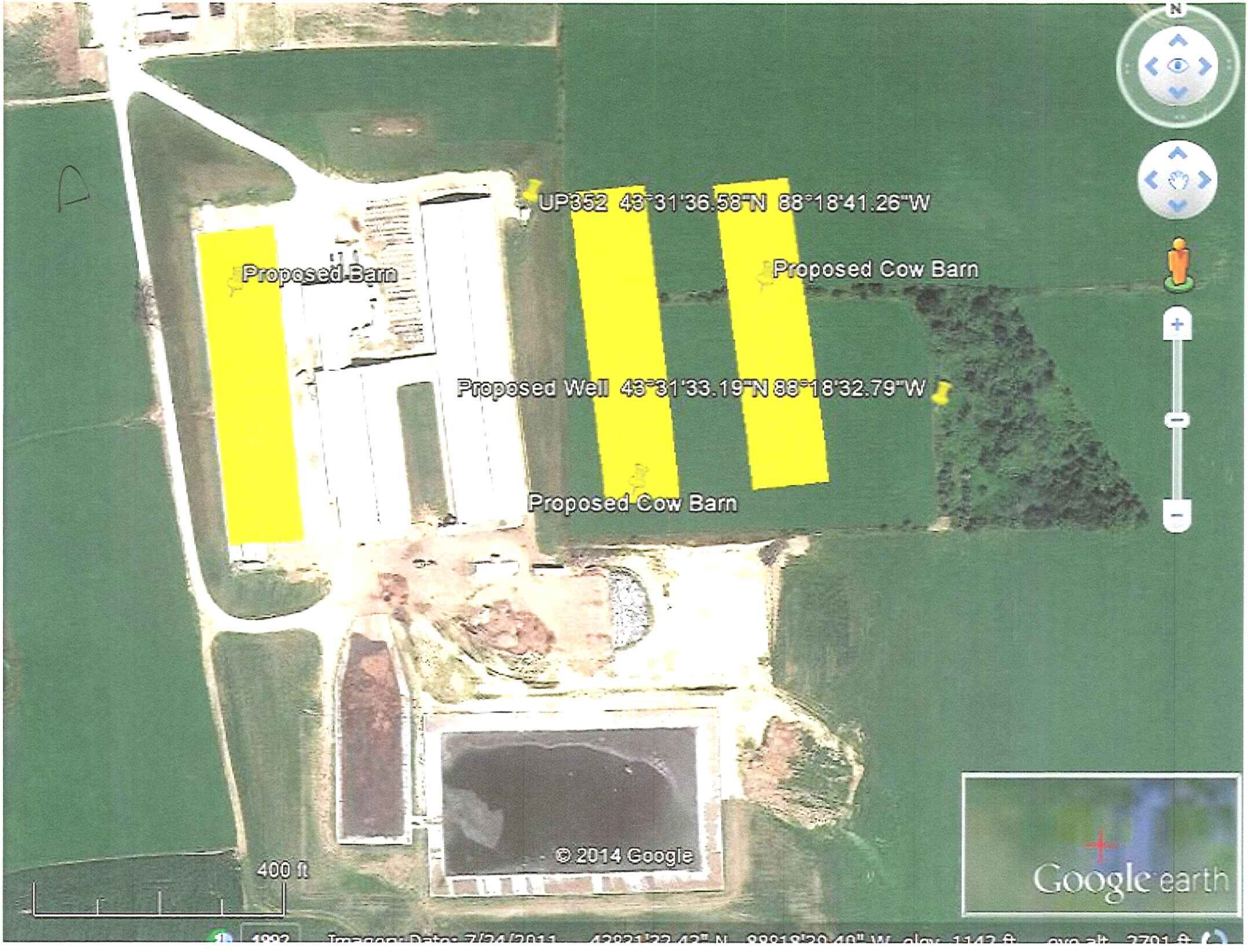
Include as much of the following information as practical for wells that do not have well construction records attached to the application, however if the well construction record is attached, applicant may leave the following rows blank.

Date of Construction:				
Drilled by (Name of Drilling Firm):				
Drilling Method(s) (Rotary, Percussion, Etc.)				
Well Depth in Feet:				
Upper Enlarged Drillhole Diameter in Inches and Depth in Feet:	inches, feet	inches, feet	inches, feet	inches, feet
Lower Drillhole Diameter in Inches and Depth in Feet:	inches, feet	inches, feet	inches, feet	inches, feet
Well Casing Diameter in Inches and Depth in Feet:	inches, feet	inches, feet	inches, feet	inches, feet
Well Casing Material and Wall Thickness:				
Annular Space Material Between Casing and Drillhole Wall:				
Is There a Well Screen (Y or N) If so, Screen Material?:				

Proposed Well Information

Enter the following information on all **proposed** wells on the property, if more than two wells or alternate construction, submit additional sheets:

Well Name Assigned by Well Owner (North Well, etc.):		
Well Number Assigned by Owner (001, 002, etc.):		
Well Loc: Quarter Quarter Section or French Long Lot Number	SE 1/4 of NW 1/4 of Section 11	1/4 of 1/4 of Section
or Government Lot Number		
Township & Range (Select E or W)	T 12 N, R 18 ☒E ☐W	T N, R ☐E ☐W
Latitude (Degrees and Minutes)	43 ° 31.553 '	___ ° ___.___ '
Longitude (Degrees and Minutes)	88 ° 18.547 '	___ ° ___.___ '
GPS Map Datum (WGS84, WTM91, etc.)		
Type of Well (Irrigation, Industrial, Residential, etc.):	Type: FARM ☒Potable ☐Non-Potable	Type: ☐Potable ☐Non-Potable
Drilling Method(s) (Rotary, Percussion, Etc.):	ROTARY	
Anticipated Geological Materials and Depths that Are Expected During Drilling:		
Material and Depth Interval:	SOIL from 0' to 100'	from 0' to '
Material and Depth Interval:	LIMESTONE from 100' to 300'	from ' to '
Material and Depth Interval:	SHALE from 300 to 530'	from ' to '
Material and Depth Interval:	LIMESTONE from 530' to 770'	from ' to '
Material and Depth Interval:	SANDSTONE from 770' to 870'	from ' to '
Drillhole Diameter and Anticipated Depth Intervals:		
Diameter and Depth Interval:	12" from 0 ' to 530'	OR BOTTOM from ' to '
Diameter and Depth Interval:	8" from 530' to 870'	OF SHALE from ' to '
Diameter and Depth Interval:	from ' to '	from ' to '
Permanent Casing or Liner Diameter and Wall Thickness at Anticipated Depth Intervals:		
Diameter and Wall Thickness at Depth Interval:	8 " diam/.322 " thick 0' to 530'	" diam/ " thick 0' to '
Diameter and Wall Thickness at Depth Interval:	" diam/ " thick ' to '	" diam/ " thick ' to '
Permanent Casing or Liner Material , If Used:		
Casing Joints (Welded, T and C, etc.)	WELDED	
Material and Weight at Depth Interval:	STEEL 18.55 lbs/foot 0' to 530'	/ lbs/foot 0' to '
Material and Weight at Depth Interval:	/ lbs/foot ' to '	/ lbs/foot ' to '
Screen Material, Slot Size in Inches and Depth Interval or N/A if none:	/ "/ ' to '	/ "/ ' to '
Casing to Screen Joint (Welded, T and C, K Packer, etc.)		
Annular Space Material Including Filter Pack Material, If Used:		
Material and Depth Interval:	CEMENT / 0' to 530'	/ 0' to '
Material and Depth Interval:	/ ' to '	/ ' to '
Proposed Average Water Usage Per Day in Gallons:		
Proposed Maximum Water Usage Per Day in Gallons:	288,000	
Seasonal? (April to October, Year Around, etc.):	YEAR ROUND	
Proposed Pump Type & Capacity (gpm):	SUB. VFD 200gpm	
Discharge Type (Over Top of Casing Seal, Pitless Adapter or Unit):	PITLESS	
Discharge Location (Building Pressure Tank, Pond, etc.):	BUILDING PRES. TANK	
Distance and Direction to Nearest Public Utility Well & Well Name:	KEWASKUM 4 MILES EAST	
Distance to Other Potential Contaminant Sources:	600' to MANURE STORAGE	
Distance to Other Potential Contaminant Sources:	150' FUTURE BARN	
Leave Blank, for Department use only		


UP352 43°31'36.58"N 88°18'41.26"W
Proposed Barn
Proposed Cow Barn
Proposed Well 43°31'33.19"N 88°18'32.79"W
Proposed Cow Barn
© 2014 Google
400 ft
Google earth

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER UL259

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Please type or Print using a black Pen
Please Use Decimals Instead of Fractions.

Form 3300-77A (R 8/00)

Property Owner: BECK FARMS
Telephone -- Number:
Mailing Address: 5545 HWY 28
City: KEWASKUM
State: WI
Zip Code: 53040
County of Well Location: Washington
County Well Permit No.: W
Well Completion Date: 10/24/2007

1. Well Location: [X] Town [ ] City [ ] Village of WAYNE
Fire # (if available): 5545
Grid or Street Address or Road Name and Number: 5545 HWY 28
Subdivision Name / Lot # / Block #

Well Constructor (Business Name): KLEMME BROS WELL & PUMP I
License #: 5935
Facility ID Number (Public Wells):
Address: 4932 HWY H
Public Well Plan Approval #: W--
City: KEWASKUM
State: WI
Zip Code: 53040
Date of Approval (mm/dd/yyyy):

Gov't Lot # / or / SE 1/4 of / NW 1/4 of
Section 11 T 12 N; R 18 [X] E [ ] W
Latitude Deg. Min.
Longitude Deg Min.

2. Well Type: [X] New [ ] Replacement [ ] Reconstruction
Lat/Long Method
of previous unique well # constructed in
Reason for replaced or Reconstructed Well?

Hicap Permanent well #:
Common Well #:
Specific Capacity: .6 gpm/ft

3. Well serves 1 # of homes and or FARM (e.g. barn, restaurant, church, school, industry, etc.)
High capacity Well? [ ] Yes [X] No
Property? [ ] Yes [X] No

[X] Drilled [ ] Driven Point [ ] Jetted [ ] Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? [ ] Yes [ ] No
Well located within 1,200 feet of a quarry? [ ] Yes [X] No If yes, distance in feet from quarry:
Well located in floodplain? [ ] Yes [X] No

Distance in Feet from Well to Nearest:
1. Landfill
53 2. Building Overhang
80 3. Septic [X] Holding Tank [ ]
100 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline [ ] Swimming Pool [ ]
9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
100 13. Building Drain [X] Cast Iron or Plastic [ ] Other
60 14. Building Sewer [X] Gravity [ ] Pressure [X] Cast Iron or Plastic [ ] Other
15. Collector or Street Sewer: [ ] Sanitary [ ] Storm units [ ] =< 6 [ ] > 6 in. diam.
16. Clearwater Sump
17. Wastewater Sump
53 18. Paved Animal Barn Pen
53 19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
600 23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method

Dia (in.)	From (ft.)	To (ft.)
10	0	90
6	90	305

Upper Enlarged Drillhole / Lower Open Bedrock
[ ] ---1. Rotary - Mud Circulation----------
[X] ---2. Rotary - Air----------
[ ] ---3. Rotary - Air and Foam----------
[ ] ---4.Drill-Through Casing Hammer
[ ] ---5. Reverse Rotary
[ ] ---6. Cable-tool Bit in. dia------
[ ] 7. Dual Rotary
[X] 8. Temp. Outer Casing 10 in. dia. 67 depth (ft)
Removed? [ ] Yes [ ] No
If no, why not?

8. Geology

Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
--CG STONEY CLAY	0	17
--Y- SAND GRAVEL	17	25
--YC SAND GRAVEL CLAY	25	67
T-L- LIMESTONE TAN	67	140
T-L- LIMESTONE TAN BROWN	140	180
R-LH LIMESTONE (RED SHALE VIENS)	180	305

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification	From (ft.)	To (ft.)
6	JSP ASTM A53B WELDED 18.97 LBS FT CHINA	0	90

Dia. (in.)	Screen type, material & slot size		

9. Static Water Level
ft. above ground surface
74 ft. below ground surface

10. Pump Test
Pumping Level 160 ft. below surface
Pumping at 50 GPM for 3 hours

11. Well is: [X] Above Grade 18 in. [ ] Below Grade
Developed? [X] Yes [ ] No
Disinfected? [X] Yes [ ] No
Capped? [X] Yes [ ] No

7. Grout or Other Sealing Material. Method
Method: PUMP TREMIE PIPE
Kind of Sealing Material

	From (ft.)	To (ft.)	# Sacks Cement
NEAT CEMENT GROUT	0	90	33

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? [ ] Yes [ ] No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller: GK
Date signed: 11/13/2007
Signature of Drill Rig Operator (Mandatory unless same as above)
Date signed

Make additional comments on reverse side about geology, additional screens, water quality, etc.
Variance issued [ ] Yes [X] No

Department of Natural Resources

Well Construction Report Comment Sheet
Form 3300-77A **Rev. 8/00**

Well Codes and Identifiers

Geologic Log No	
SID Number	
Common Well Name	
Well Notification #	27516867
Batch Seq #	1106

Well Construction Report For *WISCONSIN UNIQUE WELL NUMBER* UP352

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Please type or Print using a black Pen
Please Use Decimals Instead of Fractions.

Form 3300-77A (R 8/00)

Property Owner: BECK FARMS LLC
Telephone Number: 262-626-2429
Mailing Address: 5545 STATE RD 28 W
City: ALLENTON
State: WI
Zip Code: 53002
County of Well Location: Washington
County Well Permit No.: W
Well Completion Date: 07/25/2008

1. Well Location: [X] Town [ ] City [ ] Village of WAYNE
Fire # (if available): 5545
Grid or Street Address or Road Name and Number: STATE RD 28 W
Subdivision Name / Lot # / Block #:

Well Constructor (Business Name): LUISIER WELL DRILLING INC
License #: 157
Facility ID Number (Public Wells):
Address: 220 HANK MARKS DR
Public Well Plan Approval #: W--6760025
City: OCONTO FALLS
State: WI
Zip Code: 54154-1078
Date of Approval (mm/dd/yyyy): 07/01/2008

Gov't Lot # / or SE 1/4 of NW 1/4 of
Section 11 T 12 N; R 18 [X] E [ ] W
Latitude Deg. 43 Min. 31.612
Longitude Deg. 88 Min. 18.688

2. Well Type: [X] New [ ] Replacement [ ] Reconstruction
Lat/Long Method: GPS008
of previous unique well # constructed in
Reason for replaced or Reconstructed Well?

Hicap Permanent well #: 69690
Common Well #:
Specific Capacity: 1.3 gpm/ft

3. Well serves 1 # of homes and or FARM (e.g. barn, restaurant, church, school, industry, etc.)
High capacity Well? [X] Yes [ ] No
Property? [X] Yes [ ] No

[X] Drilled [ ] Driven Point [ ] Jetted [ ] Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? [ ] Yes [ ] No
Well located within 1,200 feet of a quarry? [ ] Yes [X] No If yes, distance in feet from quarry:
Well located in floodplain? [ ] Yes [X] No
Distance in Feet from Well to Nearest:
1. Landfill
2. Building Overhang
115 3. Septic [X] Holding Tank [ ]
98 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline [ ] Swimming Pool [ ]
9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain [ ] Cast Iron or Plastic [ ] Other
14. Building Sewer [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
15. Collector or Street Sewer: [ ] Sanitary [ ] Storm units [ ] =< 6 [ ] > 6 in. diam.
16. Clearwater Sump
17. Wastewater Sump
57 18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method

Dia (in.)	From (ft.)	To (ft.)
16	0	87
12	87	570
8	570	860

Upper Enlarged Drillhole / Lower Open Bedrock
[X] ---1. Rotary - Mud Circulation
[ ] ---2. Rotary - Air
[X] ---3. Rotary - Air and Foam
[ ] ---4.Drill-Through Casing Hammer
[ ] ---5. Reverse Rotary
[ ] ---6. Cable-tool Bit in. dia
[ ] 7. Dual Rotary
[X] 8. Temp. Outer Casing 12 in. dia. 87 depth (ft)
Removed? [X] Yes [ ] No
If no, why not?

8. Geology

Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
--GC GRAVEL/STONES/CLAY	0	86
--L- LIMESTONE	86	298
R-H- RED SHALE	298	314
--H- SHALE	314	529
--L- LIMESTONE	529	774
--N- SANDSTONE	774	860

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification	From (ft.)	To (ft.)
8	NEW P.E. 28.55 0.322 IPSCO A-53	0	551

Dia. (in.)	Screen type, material & slot size		

9. Static Water Level
ft. above ground surface
302 ft. below ground surface

10. Pump Test
Pumping Level 460 ft. below surface
Pumping at 205 GPM for .5 hours

11. Well is: [X] Above Grade 24 in. [ ] Below Grade
Developed? [X] Yes [ ] No
Disinfected? [X] Yes [ ] No
Capped? [X] Yes [ ] No

7. Grout or Other Sealing Material. Method
Method: GROUT SHOE
Kind of Sealing Material

	From (ft.)	To (ft.)	# Sacks Cement
PORTLAND CEMENT	0	551	450

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
[ ] Yes [ ] No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller: JM — Date signed: 08/20/2008
Signature of Drill Rig Operator (Mandatory unless same as above): JS — Date signed: 07/25/2008

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued [ ] Yes [X] No

Department of Natural Resources

Well Construction Report Comment Sheet
Form 3300-77A **Rev. 8/00**

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 1150

Driller Notes

Other CASING IS 21' OFF BOTTOM OF 12" HOLE.